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	Application No.	Applicant(s)	
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Notice of Allowability	10/089,012	MUHLEN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Vinit H. Patel	1764	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	OR REMAINS) CLOSED or other appropriate comn GHTS. This application is	in this application. If not includ nunication will be mailed in due	led course, THIS
1. This communication is responsive to <u>July 25, 2005</u> .	\$		
2. X The allowed claim(s) is/are <u>1-20</u> .			
 Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicat	ion No	ation from the
* Certified copies not received:	140 2		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application. tted. Note the attached EX	(AMINER'S AMENDMENT or N	
 CORRECTED DRAWINGS (as "replacement sheets") musical (a) ☐ including changes required by the Notice of Draftspers hereto or 2) ☐ to Paper No./Mail Date including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Revie	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			e back) of
6. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MAT	TERIAL must be submitted.	Note the
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Attachment(s)		-f	(0.450)
1. Notice of References Cited (PTO-892)		nformal Patent Application (PT	O-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	o 📋 Interview S Paper No	Summary (PTO-413), ./Mail Date	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	8), 7. 🔲 Examiner	s Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	r de la companya de l	s Statement of Reasons for Alle	owance
-	√9. ☐ Other	<u>_</u> .	

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05)

DETAILED ACTION

Allowable Subject Matter

Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance: Methods for gasifying organic substances comprising feeding the organic containing materials into a pyrolysis reactor to produce a high caloric value gas by contacting the organic material to a heat carrier medium in the pyrolysis reactor to cause pyrolysis of the organic material to form a carbon residue and pyrolysis gas are generally well known in the art.

Applicant's invention is directed toward a method of gasifying organic substances comprising feeding the organic containing materials into a pyrolysis reactor to produce a high caloric value gas by contacting the organic material to a heat carrier medium in the pyrolysis reactor to cause pyrolysis of the organic material to form a carbon residue and pyrolysis gas; separating the heat carrying medium and feeding the carbon containing residue into a firing, the carbon containing residue heated in the firing and the heat carrier medium being heated by the gas formed from the firing where it is separated by the burning off of the coke; feeding at least a heat carrier medium to a reactor and feeding at least a portion of the pyrolysis gas into the reactor; wherein reactant is added to produce a product gas; and the heat carrier is recycled back into the pyrolysis reactor, wherein the pyrolysis reactor is designed to include a migrating fixed/moving or rotary drum) bed reactor, that converts the pyrolysis gas into product gas.

A search of the prior revealed Deglise et al., U.S. Patent No. 4,568,362, McIntosh et al., U.S. Patent No. 5,662,052, Velcich, U.S. Patent No. 5,262,577,

Art Unit: 1764

Rudolph et al., U.S. Patent No. 3,738,103. Haberman, U.S. Patent No. 4,038,100 and Gwyn et al, U.S. Patent No. 4,110,193, all of which teach alone or in combination methods for gasifying organic substances comprising feeding the organic containing materials into a pyrolysis reactor to produce a high caloric value gas by contacting the orgainic material to a heat carrier medium in the pyrolysis reactor to cause pyrolysis of the organic material to form a carbon residue and pyrolysis gas. However, the references alone or in combination fail to teach a method of gasifying organic substances wherein the steps include feeding the organic containing materials into a pyrolysis reactor to produce a high caloric value gas by contacting the organic material to a heat carrier medium in the pyrolysis reactor to cause pyrolysis of the organic material to form a carbon residue and pyrolysis gas; separating the heat carrying medium and feeding the carbon containing residue into a firing, the carbon containing residue heated in the firing and the heat carrier medium being heated by the gas formed from the firing where it is separated by the burning off of the coke; feeding at least a heat carrier medium to a reactor and feeding at least a portion of the pyrolysis gas into the reactor; wherein reactant is added to produce a product gas; and the heat carrier is recycled back into the pyrolysis reactor, wherein the pyrolysis reactor is designed to include a migrating fixed/moving or rotary drum) bed reactor, that converts the pyrolysis gas into product gas.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Application/Control Number: 10/089,012 Page 4

Art Unit: 1764

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vinit H. Patel whose telephone number is (571) 272-0856. The examiner can normally be reached on 9:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VHP

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(Moury Patent Examinar

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